

The Medical Library

FOR THE

Medical School or the Small Community.

BY

BAYARD HOLMES, B.S., M.D.,

CHICAGO.

REPRINTED FROM THE

BULLETIN OF THE AMERICAN ACADEMY OF MEDICINE,

AUGUST, 1895.



PRICE, 50 CENTS.

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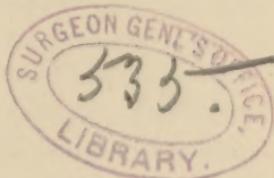
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EASTON, PA.:
LAFAYETTE PRESS,
1895.

THE MEDICAL LIBRARY FOR THE MEDICAL SCHOOL OR THE SMALL COMMUNITY.¹

BY BAYARD HOLMES, B.S., M.D.,

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Surgeons, of Chicago.

Two years ago I published an account of an experiment I had made in teaching a class of thirty students to use a medical library.² Since that time it has been my privilege to take several classes of students through similar exercises in the Newberry library. A number of other circumstances, besides my teaching, have led me to give my attention to libraries for medical schools and medical societies. I hope, therefore, that the presentation of this subject, however incomplete it may be, will be found useful to teachers and save some of them much waste of energy in their attempts to organize medical libraries.

The medical library question presents itself to every teacher who really wishes to give his students that quality of education which is now offered in the other scientific departments, as well as in the literary department of all our universities, and in many of our high schools and academies. Our younger medical teachers are acquainted with the great value, educationally, of the seminar method of study, and to them a medical library seems indispensable to every medical college.

Doubtless this article will attract the attention of some teachers who will be surprised to learn that there is not, in any medical college in the United States, a library which is adapted to this method of study and open to students for literary research. The graduate of any superior college or university, entering upon his medical studies, is astonished to find those pedagogic methods of study, to which he has been accustomed at the university, all stop short at the medical school. This is largely due to the fact that the traditions of the past century still prevail in medical schools, and the library as an educational engine is almost unknown in them.

¹ Read at the meeting of the American Medical College Association, at Baltimore, May 8, 1895.

² Is it desirable and practical in medical schools to teach methods of investigation in medical literature?—*The Medical News*, Philadelphia, August 12, 1893.

Weston Flint,¹ in 1891, reported 3,803 public libraries in the United States containing 26,826,000 bound volumes and 4,340,000 pamphlets, or 31,167,000 books in all, making an average of 8,194 volumes in each library, or about 50 books to each 100 of the population. At the same time he reported 59 public medical libraries in the United States, only six of which contain more than 10,000 volumes. These were the library of the Surgeon-General's office in Washington with 104,000 volumes, the library of the College of Physicians,² in Philadelphia, with 41,000 volumes, the library of the Pennsylvania Hospital with 14,000 volumes, the library of the New York Academy of Medicine with 30,000 volumes, the library of the New York Hospital with 20,000 volumes, and the Boston Medical Library Association with 21,565 volumes. Mention is not made in this report of the Newberry Library, in Chicago, which has about 25,000 volumes in its medical department. Perhaps the feature of this report most relevant to our subject, lies in a comparison of the department libraries of the various universities having medical departments and departments of law and theology. Thus Harvard Medical School, with 399 students, reports only 1,500 volumes in its library, while the general university library has 292,000 volumes, the law department, with 366 students, has 28,157 volumes, and the theological school, with 86 students, has 23,360 volumes. The same inequality exists at Yale College, with its 1,755 students, where there are 185,000 volumes in the library. The medical school, with 72 medical students, has 3,000 volumes in its library.

Again, there are many cities with 20,000 or more inhabitants, with flourishing medical societies but no library worthy of mention. An indistinct need of a library is felt, but sufficient data are not at hand to make even the discussion of the subject effectual. A number of medical societies, especially in the eastern states, report as high as 6,000 or 8,000 volumes in their libraries, but these libraries are in no sense working libraries, being old libraries and without adequate catalogues.

¹ Statistics of Public Libraries in the United States and Canada. Washington, Government Printing Office, 1893. Circular of Information, No. 201, Bureau of Education.

² Not a teaching body.

The ends to be accomplished by a medical college library, it seems to me, are the following:

1. To furnish the means of training students in medical bibliography and bibliographic research.
2. To furnish, through its medical literature, material for the study of each and every medical science which now forms a part of the medical curriculum.
3. To furnish material for the study of the sciences collateral to medicine.
4. To make possible the proper pedagogic methods in medical schools.

In order that the library may meet the first requirement it must not only possess all the books on some subject, but these books must be so systematically arranged that they can be used, that is to say, the books must be made into a library from the librarian's standpoint. They must be accessible. They must be classified and catalogued. They must be properly taken care of.

The librarian is now a member of a skilled profession. No one but a graduate of a library school is capable of undertaking the care of such a library as every medical school needs. Great care should be taken in the selection of a librarian, and once he is selected, he should be allowed full sway in making the library. The furniture should be of his selection and the catalogue of his construction. In small libraries the entire time of the skilled librarian would perhaps be unnecessary. Some unskilled person can soon learn to become the keeper of the books and of the library room after the first labor of cataloging is complete, and one or two days each week ought to be sufficient to keep the system up in a small library. A medical student, or some other unskilled person, can easily take care of the room and keep the books upon the shelves and assist the readers. The catalogue is of course to be a card catalogue. In a medical school, these cards should be accessible to the readers. It should embrace first the author-index, and secondly, the subject index. The author-index of a medical school should not only include the name of the author of each book in the library, but also the name of the author of each article in the serials which the library con-

tains. The same may be said of the subject catalogue. It should be made so full that the student would be referred directly not only to books but to each article in the journals and encyclopedias.¹ There are on an average about three cards on each book. The cost of cataloging is considerable at the beginning, but inconsiderable after the library is under way. The library schools at Albany, N. Y., the Armour Institute at Chicago, the Pratt Institute in Brooklyn, the Drexel Institute in Philadelphia, and the Library School in Los Angeles, California, are able to furnish competent librarians and catalogers, either by the month or for the job. The shelving and other furniture can be procured much cheaper than it can be made, and of better quality from the Library Bureau of Boston, N. Y., and Chicago.² The many details of library making can best be understood by visiting a library school or a well conducted library.

The selection of the books is a matter of the greatest importance if instruction in bibliography is to be undertaken and the library made actually useful as an educational instrument. The accompanying list endeavors to meet this end. It contains (1) works on general bibliography and library methods, (2) works on medical bibliography and (3) the medical library proper. It will be seen at once that there must be an understanding of the library on the part of the readers in order to insure its greatest usefulness to them, therefore it is necessary to have instruction in library methods before serious reading begins. This is accomplished by demonstrations by the librarian or by a teacher before classes, and by the assistance of the librarian to the reader in the actual accomplishment of his work.

The need of works on medical bibliography is apparent to all. Such serials as the *Index Medicus*³ and Schmidt's *Jahrbücher* are essential, and they are the back bone of a medical library.

¹ This need be done only in libraries of 5,000 volumes and less. As the library grows, dependence can be placed on references from bibliographical works, such as the *Index Medicus* and *Virchow and Hirsch Jahresbericht*. In small college libraries with incomplete collections, the subject catalogue is almost necessary to the proper use of the books.

² Classified illustrated catalogue of the Library Bureau, Octavo, pages 186. Library Bureau Boston, 1893. This book can be obtained on request.

³ This publication has been carried on for many years at a great loss to the publisher, Mr. Geo. D. Davis, of Detroit, Mich. It is now suspended. There is nothing to supply its place. It ought to receive the support of every college and college library.

In order to meet the second aim of a medical library, namely, to furnish material for the study of every medical science and art through its literature, it is necessary to have a fair representation of that literature in the library. This literature is composed of two distinct parts—first the serial literature, and secondly the compends and monographs. With the multitude of serial publications it is impossible to have the complete medical literature in any college, even were it desirable. No attempt in that direction should be made. The best that can be done, and all that is desirable, is to make a wise selection. In general medicine it is best to have the most recent encyclopedias, the most recent text books, the most important score or two of journals. There are historical reasons for admitting some of the old classical literature. In college libraries no limit need be placed upon the language in which the serials are published. Science has no language. It may seem wise sometimes to begin all the serials, at least in the departments of surgery and medicine, nor further than ten or fifteen years back. This will greatly diminish the expense and the number of volumes, but it will be very difficult to complete such broken sets. The amount of money available or the needs of particular classes, will dictate in these matters. *Not very many compends or text-books* should be included in a college library. One or two encyclopedias of the subject are enough. It may be desirable to have one of these encyclopedias in English and one in German or in French for comparative study. In general medical literature the serials may be selected in order to give a geographical representation. Thus in medical colleges each part of the United States ought to be represented with a standard journal. From each foreign country one journal will be useful; for example, one each from Japan, Australia, India, and southern Africa. A representation ought also to be given to the various medical sects. One or two of the best homeopathic and eclectic journals should certainly be upon the shelves.

There can be no question as to the value of biology, physics, chemistry, anthropology, and sociology, in strengthening and giving motive to the medical library. These sciences should be represented by compends and encyclopedias if the poverty of the institution makes it impossible to represent them by serials. In

building up a library one or two of these accessory departments can be added as occasion requires and the resources of the institution permit.

It is unnecessary to inform teachers educated in modern pedagogic methods and acquainted with our medical schools, that little short of a revolution is desirable in order to bring them into a proper condition of efficiency. Probably all are persuaded (except where the profession seems absorbed in supplying the demands for physicians in the sparsely settled districts) that the first steps toward elevating medical education rest in an admission examination which will keep out all but the educated applicants. Unfortunately there seems to be no great eagerness on the part of educated men to accept the degree of Doctor of Medicine as long as it must be obtained through four years of torture under a system of teaching and bombastic exposition adapted to the mental digestion of uneducated farm hands and barbers.

More radical changes must however be made than the preliminary examination contemplates, though of course the very highest qualifications must be exacted in this direction. Changes are required in the system of teaching itself. In many schools the laboratory method is established in a more or less efficient manner, but only in such subjects as histology and pathology. Changes are necessary in the teaching of medicine, obstetrics, and surgery, corresponding to that which has come in histology. Lectures alone are no longer adequate. Direct methods of study must be instituted. There should be the same possibility of studying the literature of a medical case, as there is now of studying in the laboratory the development of the eye. This method of studying medicine from the original sources, medical literature, would not only improve the temper and quality of the student's conception, but would fit him also for subsequent self-culture. The seminar method of study contemplates the organization under a competent leader or professor, of classes of students who have already passed the preliminary pupil-stage and have reached the self-reliant student-stage. The work of each student is in a way original and independent, and it is to be laid out by the teacher so as to make with the work of the other students a symmetrical whole. The meetings occur only once or

twice a week and pre-suppose a considerable amount of previous individual study. The essential element of this method of study in a medical school is an adequate medical library, and it is on account of this demand that this selection of books has been undertaken.

Upon the system with which the library is catalogued will depend much of its usefulness to the medical student. The only general system now published which includes medicine is the decimal system of Melville Dewey.¹

This system gives a plan readily and quickly understood and sufficiently natural in its arrangement to place the library at the command of readers at the shelves without much aid from the librarian. It may be useful to some medical readers to give a short account of this system here.

According to the decimal classification, all books are placed under one of ten general heads termed "Classes." One of the ten digits which stand for these ten classes will be the first figure of the number of each book.

CLASSES.

0. GENERAL WORKS.
1. PHILOSOPHY.
2. RELIGION.
3. SOCIOLOGY.
4. PHILOLOGY.
5. NATURAL SCIENCE.
6. USEFUL ARTS.
7. FINE ARTS.
8. LITERATURE.
9. HISTORY.

Medicine is found in the 6 Useful Arts. This classification was originally designed for a library rich in 1-2-3-4- classes but practically no 5- and 6-classes, therefore medicine is crowded with the other useful arts into the 600's.

600. USEFUL ARTS.

610. MEDICINE.

611. *Anatomy.*

¹ Decimal classification and relative index for libraries, clippings, notes, etc. 4th revised and enlarged edition by Melville Dewey, M.A. Boston, Library Bureau. 1891. Octavo.

- 612. *Physiology.*
- 613. *Hygiene.*
- 614. *Public Health.*
- 615. *Materia Medica and Therapeutics.*
- 616. *Pathology.*
- 617. *Surgery.*
- 618. *Diseases of Women and Children.*
- 619. *Comparative Medicine.*
- 620. **ENGINEERING.**
- 630. **AGRICULTURE.**
- 640. **DOMESTIC ECONOMY.**
- 650. **COMMERCE.**
- 660. **CHEMICAL TECHNOLOGY.**
- 670. **MANUFACTURE.**
- 680. **MECHANICAL ARTS.**
- 690. **BUILDING.**

Thus it will be seen that any book in Human Anatomy will be found with the number 611 on it, a book on Surgery 617, etc. The same arrangement and numbering applies also to pamphlets and clippings. Reprints and clippings are placed in strong envelopes and treated just if they were books. In order that those unacquainted with the subject may easily see the end of the classification in one department, I will give the detail of 617.

617. *Surgery.*

.01 Philosophy, theories; .02 Compends; .03 Dictionaries and encyclopedias; .04 Essays; .05 Periodicals; .06 Proceedings of Societies; .07 Study and Teaching; .08 Polygraphy; .09 History.

- 617.1 Injuries.
- 617.2 Results of injuries.
- 617.3 Deformities, orthopedic surgery.
- 617.4 Surgical operations.
- 617.5 Regional surgery.
- 617.6 Dentistry.
- 617.7 Ophthalmological surgery.
- 617.8 Diseases of the Ear.
- 617.9 Operative surgery.

Each of these decimals are carried out still farther and may be extended almost indefinitely in libraries upon special subjects as for example, Diseases of the Ear. The books and serials in this department are classified like 610. The books of a

library of 200 volumes can be symmetrically arranged and numbered according to this system and placed in order on 6 shelves. Additions can be made to this library in one or many departments and yet the first two hundred books will never be disturbed in their relative positions to each other. It is impossible to conceive of a growth in any single department, as for example in 617.7, which would not be easily cared for by the use of the three decimal figures with the help of the Cutter Extension. Prof. Cutter of the Athenaeum Library, of Boston, is preparing a less fixed system, to include the department of medicine, which will soon be published. His expansive system, as it is called, uses letters instead of figures and has been adapted to Medicine by Dr. Wire, of the Newberry Library, of Chicago.

The accompanying classed catalogue, which is arranged and numbered according to the decimal classification, contains 900 entries. This would make a very serviceable library for a medical college or a medical society. From this beginning a very extensive library could with proper care and relatively small expense soon be developed. The distribution of this library is as follows:

- o. GENERAL WORKS.
1. PHILOSOPHY.
2. RELIGION.
3. SOCIOLOGY.
4. PHILOLOGY.
5. NATURAL SCIENCE.

610. MEDICINE IN GENERAL.

611. *Anatomy.*
612. *Physiology.*
613. *Personal Hygiene.*
614. *Public Health.*
615. *Materia Medica and Therapeutics.*
616. *Pathology.*
617. *Surgery.*
618. *Obstetrics.*
619. *Comparative Medicine.*

7. FINE ARTS.
8. LITERATURE.
9. HISTORY.

In presenting this catalogue no apology is necessary for its incompleteness and lack of perspective. This is a pioneer effort in medical bibliography and one which the author trusts will receive the encouragement of medical teachers and medical publishers.

CLASSED CATALOGUE, DECIMAL SYSTEM, OF A MEDICAL LIBRARY FOR A MEDICAL SCHOOL.

000. GENERAL WORKS.

025 Dewey, Melvil. Decimal classification and relativ index. 1891.
 D51 4to. Bost., Library Bureau.

025 Dewey, Melvil. Library School rules; card catalogue rules;
 D51 accession rules; shelf list rules. 1892. 4to. Bost., Library Bureau.

027 Cutter, C. A. Rules for a dictionary catalogue. 3.ed. 1891. 8vo.
 C98 Washington, U. S. Bureau of Education.

031 Johnson's universal cyclopedia. 1893. 8v. 4to. N. Y., Johnson.

J6 Encyclopedia Britannica. 1875-88. 24v. and index. 9.ed. 4to.
 En London, Black.
 —— Supplement, 1885-89. 4v. 4to. Phila., Hubbard.

050 Annual literary index, including periodicals... essays... with bibliographies and necrology; ed. by W. I. Fletcher and R. R. Bowker; 1892—. 8vo. N. Y., Publishers' Weekly.
 An7 1894, v.3.

050 Poole, W. F. Index to periodical literature. 3.ed. 1882. 4to.
 P7 Bost., Houghton.
 —— 1st supplement by Poole and Fletcher. 1887. 4to.
 —— 2nd supplement by W. I. Fletcher. 1893. 4to.

100. PHILOSOPHY.

109 Erdmann, J. E. History of philosophy. 1891-92. 3v. 8vo. (Lib. of phil.) London, Sonnenschein (Macmillan).

110 Fiske, John. Outlines of cosmic philosophy. 1892. 2v. 8vo.
 F54 Bost., Houghton.

113 Spencer, Herbert. First principles. 1892. 8vo. (Synthetic philosophy.) N. Y., Appleton.

Sp3 Griesinger, Wilhelm. Mental pathology and therapeutics. 1867.
 132 8vo. London, New Sydenham Soc.

G87 Galton, Francis. Human faculty and its development. 1893. 8vo.
 136 N. Y., Macmillan.

G13 Darwin, Charles. Expression of the emotions in man and animals. 1892. 8vo. N. Y. Appleton.
 138 D25

146 Comte, Philosophy of the sciences. 12mo. (Bohn lib.) N. Y.,
C73 Macmillan.

150 Herbart, J. F. Text-book in psychology. 1891. 12mo. (Inter.
H41 educ. ser.) N. Y., Appleton.

150 James, William. Principles of psychology. 1890. 2v. 8vo. (Amer.
J23 sci. ser. adv. course.) N. Y., Holt.

150 Perez, Bernard. First three years of childhood. 1889. 12mo.
P41 Syracuse, [N. Y.,] Bardeen.

150 Preyer, Wilhelm. Mind of the child. 1892. 2v. 12mo. (Inter.
P92 educ. ser.) N. Y., Appleton.

150 Spencer, Herbert. Principles of psychology. 1882. 2v. 8vo.
Sp3 (Synthetic philosophy.) N. Y., Appleton.

150 Sully, James. Outlines of psychology. 1892. 8vo. N. Y., Apple-
Su5 ton.

150.05 American journal of psychology; 1887—. 8vo. Baltimore, Quar-
Am3 terly.
1894, v.6.

171 Spencer, Herbert. Principles of ethics. 1893. v.1. 8vo. (Syn-
Sp3 thetic philosophy.) N. Y., Appleton.

177 Hamerton, P. G. Human intercourse. 1892. 12mo. Bost.,
Hi7 Roberts.

300. SOCIOLOGY.

301 Herbert, William. World grown young; a record of reforms,
H41 1894-1914. n. d. 12mo. London, Allen, W. H.

301 Spencer, Herbert. Principles of sociology. 1892. 2v. 8vo. (Syn-
Sp3 thetic philosophy.) N. Y. Appleton.

304 Brooklyn Ethical Association. Man and the state. 1892. 12mo.
B79 N. Y., Appleton. (Brooklyn Eth. Assoc.)

307 Spencer, Herbert. Study of sociology. 1891. 8vo. N. Y.,
Sp3 Appleton.

317 Tribune almanac and political register. 1894—. 12mo. N. Y.
T73 Tribune Assoc. Yearly.

317 U. S.—Statistics, Bureau of, Statistical abstract of the United
Un3 States. 1878—. 8vo. Washington, U. S. Bureau of Statistics.

331 Booth, Charles, ed. Life and labor of the people in London.
B64 1892-93. 4v. 8vo. London, Macmillan.

331 Ely, R. T. Labor movement in America. 1886. 12mo. N. Y.,
E19 Crowell.

331 Howell, George. Conflicts of capital and labor. 1890. 12mo.
H33 London, Macmillan.

331 Howell, George. Trade unionism. 1891. 12mo. (Social ques.
H33t of to-day.) London, Methuen.

331 Hull-house maps and papers; a presentation of nationalities and
H87 wages in a congested district of Chicago, by residents of
Hull-house. 1895. 8vo. N. Y., Crowell.

331 Jevons, W. S. State in relation to labor. 1887. 12mo. (Eng. citizen. ser.) N. Y., Macmillan.

J53 Price, L. L. F. R. Industrial peace. 1887. 8vo. London, Macmillan.

331 P93 Stanley, Maude. Clubs for working girls. 1890. 12mo. N. Y., Macmillan.

331 St2 Taylor, R. W. C. Modern factory system. 1891. 8vo. London, Paul.

331 T21 Thornton, W. T. On labor; its wrongful claims and rightful dues. 1870. 8vo. N. Y., Macmillan.

331 T39 U. S.—Dept. of labor. Annual report; 1886—. 8vo. Washington.

331 Un3 White, Arnold. Problems of a great city. 1887. 8vo. London, Remington.

334 W58 Wilkinson, J. F. Friendly society movement. 1886. 12mo. N. Y., Longmans.

335 E19 Ely, R. T. French and German socialism in modern times. 1883. 16mo. N. Y., Harper.

335 Sch2 Schäffle, Albert. Quintessence of socialism. 1892. 12mo. London, Sonnenschein.

340.6 T21 Taylor, A. S. (a) manual of medical jurisprudence. 9th Amer. from the 12th Eng. ed.; rev. by Clark Bell of the N. Y. Bar. 8vo. Phila., Lea.

340.6 T43 Tidy, C. M. Legal medicine. 3v. 1882-84. N. Y., Wood.

343 C42 Cherry, R. R. Lectures on the growth of criminal law in ancient communities. 8vo. N. Y., Macmillan.

343 D85 Du Cane, E. (The) punishment and prevention of crime. 12mo. (English citizens ser.) N. Y., Macmillan.

343 F41 Ferri, Enrico. Sociologie criminale; tr sur la 3e éd. italienne. 1892. 8vo. Paris, Rousseau.

355 H1 Hamley, Sir E. B. Operations of war explained. 1878. 4to. Edin., Blackwood.

360.05 Ar2. Archives de l' anthropologie criminelle et des sciences pénales. 1886—. Paris. Masson. Bi-monthly.
1894, v.9.

364 B63 Boies, H. M. Prisoners and paupers. 1893. 12mo. N. Y., Putnam.

364 D87 Dugdale, R. L. "The Jukes;" a study in crime and heredity. 1891. 12mo. (Ques. of the day.) N. Y., Putnam.

364 E15 Ellis, Havelock. The criminal. 1892. 12mo. (Contemp. sci. ser.) Scott. (Scribner.)

364 M14 MacDonald, Arthur. Abnormal man; being essays on education and crime and related subjects. 1893. 8vo. Washington. (Bureau of Education. Circular of information, No. 4; 1893.) Contains bibliography of criminology.

364 Tallack, William. Penological and preventive principles. 1889.
 T14 8vo. London, Howard Assoc.

364 Winter, Alexander. New York state reformatory in Elmira.
 W73 1891. 12mo. London, Sonnenschein.

368 Willey, Nathan. Principles and practice of life insurance. 1892.
 W6 4to. N. Y., Spectator Co.

370 Compayré, Gabriel. History of pedagogy. 1892. 12mo. Bost.,
 C73 Heath.

370 Educational review; 1891—. 8vo. N. Y., Holt. Monthly.
 Ed8 1894, v.8.

370 Fröbel, Friedrich. Education of man. 1892. 12mo. (Inter.
 F92 educ. ser.) N. Y., Appleton.

370 Spencer, Herbert. Education. 1893. 8vo. N. Y., Appleton.
 Sp3

370.04 Farrar, F. W. and Poole, R. B. Three lectures on the practice
 F24 of education. 16mo. (Pitt Press ser.) Cambridge Univ.
 [N. Y., Macmillan.]

371 Farrar, F. W. and Poole, R. B. General aims of the teacher.
 F24 16mo. (Pitt Press ser.) Cambridge Univ. [N. Y., Mac-
 millan.]

371 Ham, C. H. Manual training. 1886. 12mo. N. Y., Harper.
 H17

371 Woodward, C. M. Manual training in education. 1890. 8vo.
 W87 London, Scott.

379 U. S.—Education, Bureau of, Report of the commissioner for
 Un3 1888-89. 2v. 8vo. Wash., U. S. Bureau of Education.

400. PHILOLOGY.

433 Flügel, J. G. Universal English-German and German-English
 F6 dictionary. 1891. 3v. 4to. N. Y., Westermann.

443 Brachet, Auguste. Etymological dictionary of the French lan-
 B72 guage. 1882. 12mo. Clar. Press. (N. Y., Macmillan.)

443 Clifton, E. C. and Grimaux, Adrien. Nouveau dictionnaire an-
 C61 glais-français et français-anglais. Nouvelle ed. 2v. n. d.
 4to. Paris, Garnier.

453 Baretti, Giuseppe. Dictionary of the Italian and English lan-
 B23 guages. Last ed. 2v. 8mo. London, Simpkins.

463 Valasquez de la Cadena, Mariano. Pronouncing dictionary of the
 V5 Spanish and English languages. 1892. 4to. N. Y., Appleton.

500. NATURAL SCIENCE.

500 Humboldt, Alexander von. Cosmos. 1871-91. 5v. 12mo. (Bohn's
 H88 lib.) N. Y. Macmillan.

505 American journal of science. 1819—. 8vo. New Haven. Dana.
 Am3 Monthly.
 1894, v.148.

505 American naturalist. 1867—. nar. 4to. Phila., Edwards and Am3n Docker. Monthly.
1894, v.28.

505 Natural science. 8vo. London, Rait, Henderson & Co. Monthly.
N21 1894, v.5.

505 Popular science monthly; 1872—. 8vo. N. Y., Appleton.
P81 Monthly.
1894-5, v.46.

505 Science; 1883—. 4to. N. Y., Hodges. Weekly.
Sci1 1894, v.24.

508.3 Darwin, Charles. Journal of researches in natural history and
D25 geology during the voyage round the world of H. M. S.
"Beagle." 1890. 8vo. N. Y., Appleton.

508.9 Woodford, C. M. Naturalist among the head hunters; Solomon
W85 Islands in 1886-88. 1890. 8vo. London, Philip.

509 Whewell, William. History of the inductive sciences. 1890. 2v.
W57 8vo. N. Y., Appleton.

530 Dolbear, A. E. Matter, ether, and motion. 1892. 12mo. Bost.
D68 Lee.

530 Ganot, Adolphe. Elementary treatise on physics. 1883. 8vo.
G15 London, Longmans.

530 Siemens, Sir C. W. Scientific works. 1889. 3v. 8vo. London,
Sir Murray.

530 Stallo, J. B. Concepts and theories of modern physics. 1891.
St1 12mo. (Inter. sci. ser.) N. Y., Appleton.

531 Du Bois, A. J. Elements of graphical statics and their application
D85 to framed structures. 1883. 2v. 8vo. N. Y., Wiley.

531 Goodeve, T. M. Manual of mechanics. n. d. 16mo. N. Y.,
G61 Longmans.

531 Stewart, Balfour. Conservation of energy. 1890. 12mo. (Inter.
St4 sci. ser.) N. Y., Appleton.

531 Youmans, E. L. ed. Correlation and conservation of forces.
Y8 1890. 8vo. N. Y., Appleton.

534 Helmholtz, Hermann. Sensations of tone as a physiological
H36 basis for theory of music. 1885. 8vo. London. Long-
mans.

534 Tyndall, John. Sound. 1893. 8vo. N. Y., Appleton.
T97

535 Hepworth, T. C. Book of the lantern. 1890. 12mo. N. Y., Wil-
H41 son.

535 Preston, Thomas. Theory of light. 1890. 8vo. N. Y., Mac-
P92 millan.

536 Tait, P. G. Heat. 1884. 12mo. N. Y., Macmillan.
T13

536 Thurston, R. H. Heat as a form of energy. 1890. 12mo. (River-
T42 side sci. ser.) Bost., Houghton.

536 Tyndall, John. Heat as a mode of motion. 1892. 8vo. N. Y.,
T97 Appleton.

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